

# Converting Colors

CIELCh(67, 65.286, 63.990)

Have a look what the booklet for  
CIELCh(67, 65.286, 63.990) contains.

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# Color

**CIELCh(67, 65.003, 64.090)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E98D36
RGB	233, 141, 54
RGB Percent	91%, 55%, 21%
CMY	0.0864, 0.4471, 0.7883
CMYK	0.00, 0.39, 0.77, 0.09
HSL	29°, 80%, 56%
HSV	29°, 77%, 91%
XYZ	43.7863, 36.6320, 8.2511
YIQ	158.5900, 82.7590, -7.5530

# Conversions

## Conversions Part 2

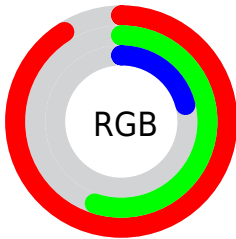
Format	Color
R <sub>YB</sub>	233, 223, 54
Decimal	15306038
CIE <sub>Lab</sub>	67.00, 28.40, 58.47
CIE <sub>LCh</sub>	67, 65.003, 64.090
Yxy	36.6320, 0.4938, 0.4131
Android (android.graphics.Color)	4293496118 (0xFFE98D36)
YUV	158.5900, -51.5629, 65.2576
Hunter-Lab	60.5244, 23.2180, 34.2842

# Details

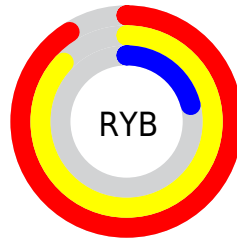
The CIELCh color **67, 65.003, 64.090** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **59, 51.625, 272.909**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **83, 53.676, 77.125**, and **47, 62.835, 62.754** is the 20% darker color. If you saturate the color by 10%, you get **64, 72.964, 62.261**, and if you desaturate by 10%, it is **70, 56.015, 65.558**.

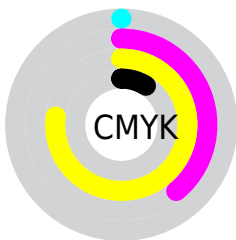
# Distribution



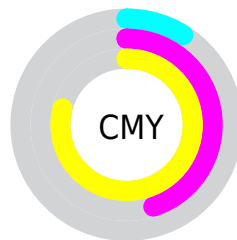
- Red (91%)
- Green (55%)
- Blue (21%)



- Red (91%)
- Yellow (87%)
- Blue (21%)



- Cyan (0%)
- Magenta (39%)
- Yellow (77%)
- Black (9%)



- Cyan (9%)
- Magenta (45%)
- Yellow (79%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 67, 65.003, 64.090 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the CIELCh color 67, 65.003, 64.090 by changing the saturation by 10% instead.



67, 65.003, 64.090

67, 65.003, 64.090

100, 65.003,  
64.090

57, 65.003, 64.090

87, 65.003, 64.090

47, 65.003, 64.090

97, 65.003, 64.090

37, 65.003, 64.090

27, 65.003, 64.090

17, 65.003, 64.090

7, 65.003, 64.090

0, 65.003, 64.090

67, 65.003, 64.090

67, 65.003, 64.090

64, 72.964, 62.261

70, 56.015, 65.558

62, 78.774, 59.708

73, 46.776, 66.869

61, 80.355, 58.853

76, 37.684, 68.127

79, 28.916, 69.368

83, 20.540, 70.602

86, 12.565, 71.823

90, 4.972, 72.991

93, 2.269, 254.462

97, 6.211, 230.228

# Harmonies

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



67, 65.003, 64.090



59, 51.625, 272.909

# Rectangle

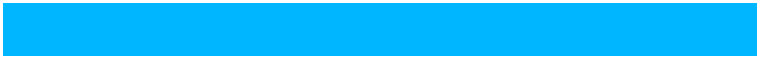
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



67, 65.003, 64.090



67, 65.003, 114.090



67, 65.003, 244.090



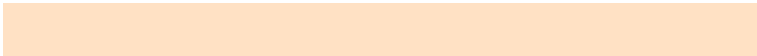
67, 65.003, 294.090

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



67, 65.002, 64.093



91, 18.772, 71.058



54, 73.585, 353.266



47, 13.112, 70.612



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



67, 65.002, 64.093



68, 81.974, 60.935



89, 80.849, 102.634



47, 4.188, 72.695



48, 66.283, 59.520



13, 22.183, 59.441





# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



59, 51.625, 272.909



58, 65.921, 279.922



37, 104.133, 302.926



47, 4.088, 255.180



40, 54.225, 282.595



10, 20.089, 274.294



# Previews

## White Background



This preview shows how the CIELCh color 67, 65.003, 64.090 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIELCh color 67, 65.003, 64.090 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 67, 65.003, 64.090

## Background



This preview shows how black text looks on a background with the CIELCh color 67, 65.003, 64.090.



This preview shows how white text looks on a background with the CIELCh color 67, 65.003, 64.090.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

67, 65.003, 64.090

### Protanopia

67, 54.633, 95.426

### Deuteranopia

67, 59.980, 81.594



**Tritanopia**  
67, 43.427, 17.145



# Trichromacy



**Original Color**  
67, 65.003, 64.090

**Protanomaly**  
67, 55.878, 82.911

**Deuteranomaly**  
67, 60.946, 74.886

**Tritanomaly**  
67, 47.125, 39.937

# Monochromacy



**Original Color**  
67, 65.003, 64.090

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
65, 22.637, 68.703

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 67, 65.003, 64.090 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(233, 141, 54)` looks like.

```
.text, #text, p{  
    color:rgb(233, 141, 54)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(233, 141, 54) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 141, 54) }
```

## Border

The CSS property to change the border of an element to CIELCh 67, 65.003, 64.090 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(233, 141, 54) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(233, 141, 54) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(233, 141, 54)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 141, 54); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 141, 54);  
box-shadow:4px 4px 4px 4px rgb(233, 141,  
54) }
```

# Background

The CSS property to change the background color of an element to CIELCh 67, 65.003, 64.090 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 141, 54) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(233,  
141, 54) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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